

Notice of Allowability	Application No.	Applicant(s)	
	10/025,061	PREDOVIC, DANIEL THOMAS	
	Examiner	Art Unit	
	Haythim J. Alaubaidi	2161	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed August 25, 2004.
2. ☒ The allowed claim(s) is/are 1,3-10,19,21-26,33 and 35-40 now renumbered 1-23.
3. ☒ The drawings filed on 18 December 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
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DETAILED ACTION

1. This communication is in response to the Amendment filed August 25, 2004.
2. The Examiner acknowledges the cancellation of Claims 2, 11-18, 20, 27-32 and 34.
3. Claims 1, 3-10, 19, 21-26, 33 and 35-40 are presented for examination following the amendment of August 25, 2004.
4. Claims 1, 3-10, 19, 21-26, 33 and 35-40 are allowed over the prior art of record following the Examiner Amendment.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview and a fax from Applicants attorney Mr. John Ward office on February 02, 2005.

The Application was amended as follows:

Claim 1. A computer implemented method for accessing data records from a large set of records stored in a database, comprising:

Defining a plurality of boundaries to logically partition the large set of records into a plurality of buckets in accordance with a predefined sort order, said sort order based on data stored in at least two columns of a database table in which at least a base portion of each data record is stored;

in response to a request to retrieve a data record;

determining a bucket in which the data record is contained;

retrieving a subset of the large set of records from the database corresponding to data records contained in the bucket; and

searching the plurality of boundaries for a sequentially-adjacent pair of boundaries as defined by the predetermined sort order that bound the data record in the request;

generating a query including a search clause defining a data set that is bounded by the sequentially-adjacent pair of boundaries; and

executing the query against the database.

Allowable Subject Matter

6. Claims 1, 3-10, 19, 21-26, 33 and 35-40, are allowed over the prior art of record.
7. The following is the Examiner's statement of reasons for the indication of allowable subject matter:

Regarding independent Claims 1, 19 and 33, Applicant's particular system and associated methods for a data mining environment is both limitations of searching the plurality of boundaries for a sequentially-adjacent pair of boundaries as defined by the

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predetermined sort order that bound the data record in the request in combination with the limitations of generating a query including a search clause defining a data set that is bounded by the sequentially-adjacent pair of boundaries in combination with the other limitations of the claims, was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record or that encountered in searching of the prior art.

The dependent Claims 3-10, being further limiting to independent Claim 1; dependent Claims 21-26, being further limiting to independent Claim 19; and dependent Claims 35-40, being further limiting to independent Claim 33, definite and enabled by the Specification are also allowed.

Points of Contact

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Haythim J. Alaubaidi whose telephone number is (571) 272-4014. The examiner can normally be reached on Monday - Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic, can be reached on (571) 272-4023.

Any response to this office action should be mailed to:

The Commissioner of Patents and Trademarks, Washington, D.C. 20231 or telefax at our fax number (703) 872-9306.

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Hand-delivered responses should be brought to the Customer Service Window of the
Randolph Building at 401 Dulany Street, Alexandria, VA 22314

Haythim J. Alaubaidi

Patent Examiner
Technology Center 2100
Art Unit 2161
February 3, 2005

Frantz Coby
FRANTZ COBY
PRIMARY EXAMINER